GE Healthcare

LOGIQ S7

LOGIQ S7 Expert

Amazing **versatility**

Data Sheet

Sensational performance **Smart** design **Specialized** capabilities

Product Description

The LOGIQ* S7 Expert is a highly mobile and easy to use, performance multipurpose color Doppler imaging system, designed for Obstetrics, Gynecology, Cardiology, Vascular, Urology, Small Parts, Pediatric, Neonatal, Transcranial, and Abdominal applications.

General specifications

Dimensions and weight

Height	Standard: 1750 mm (68.9 in) Tall: 1115 mm (43.9 in)
Width	Keyboard: 500 mm (19.7 in) Caster: 620 mm (24.4 in)
Depth	Maximum: 856 mm (33.7 in) Caster: 790 mm (31.1 in)
Weight (no Peripherals)	90 kg/198 lbs

Electrical power

Voltage	100-120 Vac or 220-240 Vac
Frequency	50/60 Hz
Power consumption maximum of 900 VA with peripherals	

Console design

- 4 active probe ports, 1 non-imaging
- Integrated HDD and DVD-R/W
- On-board storage for peripherals
- Integrated speakers
- Probe holders
- Gel holder/warmer
- Front and rear handles

User interface

Operator keyboard

- Ergonomic full size keyboard
- Swivel-adjustable, Height-adjustable
- 8 TGC pods
- 7" (177.8 mm) wide LCD touch screen

Monitor

- 19" (482.6 mm) high-resolution LCD
- Articulating monitor arm

System overview

Applications

Abdominal	Obstetrical
Gynecological	Breast
Small Parts and Superficial	Musculoskeletal
Vascular	Urological
Endocavitary	Pediatric and Neonatal
Transcranial	Cardiac

Scanning methods

- Electronic Sector
- Electronic Convex
- Electronic Micro Convex
- Electronic Linear
- Real Time 4D Volume Sweep

Transducer types

- Sector Phased Array
- Convex Array
- Microconvex Array
- Linear Array
- Matrix Array
- Single CW (Pencil) Probes
- Volume Probes (4D)

Operating modes

- B-Mode
- Coded Harmonic Imaging
- M-Mode
- Color Flow Mode (CFM)
- Power Doppler Imaging (PDI)
- PW Doppler with High PRF
- M-Color Flow Mode
- Anatomical M-Mode
- Curved Anatomical M-Mode
- B-Flow/B-Flow Color (Option)
- Extended Field of View (LOGIQView Option)
- Coded Contrast Imaging (Option)
- CW Doppler Mode (Option)
- TVI Mode (Option)
- Elastography (Option)
- 3D/4D Volume Modes (Option)

System standard features

- Advanced user interface with high resolution 7" wide LCD touch screen
- Automatic Optimization
- CrossXBeam compounding
- Speckle Reduction Imaging (SRI-HD)
- Fine Angle Steering
- Coded Harmonic Imaging
- Virtual Convex
- Patient information Database
- Image Archive on integrated CD/DVD and hard drive
- Raw Data Analysis
- Real-time automatic Doppler calculations
- OB Calculations
- Fetal Trending
- Multigestational Calculations
- Hip Dysplasia Calculations
- Gynecological Calculations
- Vascular Calculations
- Urological Calculations
- Renal Calculations
- Cardiac Calculations
- Remote capability: InSite ExC
- On-board electronic documentation
- MPEGVue
- Key Macro
- Network Storage
- Quick Save
- Quick Patient Entry

System Options

- Auto IMT
- Elastography
- Elastography Q-Analysis[1]
- Advanced 3D
- DICOM 3.0 Connectivity
- LOGIQView
- B-Flow/B-Flow Color
- CF/PDI Quantification
- B Steer+
- Stress Echo
- Tissue Velocity Imaging (TVI) with Q-Analysis
- Scan Assistant
- Report Writer
- Coded Contrast Imaging[2]
- ECG + AHA/IEC Cables
- CW Doppler
- DVR Kit
- Real Time 4D
- 4D TUI
- VOCAL
- VCI Static
- Cabinet: High/Mid/Low
- Drawer
- Small Probe Adaptor
- Vertical Endocavitary Probe Holder
- Side Probe Holder
- Probe Cable Hanger
- 3-Pedal Foot Switch
- Isolation transformer

Peripheral Options

- Integrated Options for
  - Digital BW thermal printer
  - Digital A5 Color thermal printer
  - DVD video recorder
- Digital A6 Color thermal printer
- External USB printer connection
- HDMI output available for compatible devices
- Foot Switch with programmable functionality
- Console Protective Cover

Display modes

- Live and Stored Display Format: full size and split screen – both with thumbnails for still and Cine
- Review Image Format: 4x4 and "thumbnails" for still and Cine
- Simultaneous Capability
- B or CrossXBeam/PW
- B or CrossXBeam/CFM or PDI
- B/M
- B/CrossXBeam
- Real-time Triplex Mode (B or CrossXBeam + CFM or PDI/PW or CW (Option))
- Selectable alternating Modes
- B or CrossXBeam/PW
- B or CrossXBeam + CFM (PDI)/PW(CW(Option))
- B/CW (Option)
- Multi-image (split/quad screen)
- Live and/or frozen
- B or CrossXBeam + B or CrossXBeam/CFM or PDI
- Independent Cine playback
- Time line display
- Independent Dual B or CrossXBeam/PW Display

CW

Display Formats

- Top/Bottom selectable format
- Side/Side selectable format

Virtual Convex

Timeline only

Display annotation

Patient Name: First, Last and Middle

Patient ID

2nd Patient ID

Age, Sex and Birth Date

Hospital Name

Date format: 3 Types selectable
- MM/DD/YY
- DD/MM/YY
- YY/MM/DD

Time format: 2 types selectable
- 24 hours
- 12 hours

Gestational Age from
- LMP
- GA
- EDD
- BBT

Displayed Acoustic Output
- TIS: Thermal Index Soft Tissue
- TIC: Thermal Index Cranial (Bone)
- TIB: Thermal Index Bone
- MI: Mechanical Index

% of Maximum Power output

Probe Name

Map Names

Probe Orientation

Depth Scale Marker

Lateral Scale Marker

Focal Zone Markers

Image Depth

Zoom Depth

B-Mode

Gain

Dynamic Range

Imaging Frequency

Frame Averaging

Acoustic Frame Rate

Gray Map

SRI-HD

M-Mode

Gain

Dynamic Range

Time Scale

Doppler Mode

Gain

Angle

Sample Volume Depth and Width

Wall Filter

Velocity and/or Frequency Scale

Spectrum Inversion

Time Scale

PRF

Doppler Frequency

Color Flow Mode

Line Density

Frame Averaging

Packet Size

Color Scale: 3 types
- Power
- Directional PDI
- Symmetrical Velocity Imaging

Color Velocity Range and Baseline

Color Threshold Marker

Color Gain

PDI

Inversion

Doppler Frequency

TGC Curve

Cine Gage, Image Number/Frame Number

Body Pattern: Multiple human and animal types

Application Name

Measurement Results

Operator Message

Biopsy Guide Line and Zone

Heart Rate

General System Parameters

System Setup

Pre-programmable Categories

User Programmable Preset Capability

Factory Default Preset Data

Languages: English, French, German, Spanish, Italian, Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian, Japanese (message only)

OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe, and ASUM

User Defined Annotations

Body Patterns

Customized Comment Home Position

Complete User Manual available on-board through Help (F1)

User Manual and Service Manual are included on CD with each system. A printed manual is available upon request.

CINE Memory/Image Memory

384 MB of Cine Memory

Selectable Cine Sequence for Cine Review

Prospective Cine Mark

Measurements/Calculations and Annotations on Cine Playback

Scrolling timeline memory

Dual Image Cine Display

Quad Image Cine Display

Cine Gauge and Cine Image Number Display

Cine Review Loop

Cine Review Speed

Image Storage

On-board database of patient information from past exams

Storage Formats:
- DICOM – compressed/uncompressed, single/multiframe, with/without Raw Data
- Export JPEG, JPEG2000, WMV (MPEG 4) and AVI formats

Storage Devices:
- USB Memory Stick: 64MB to 4GB (for exporting individual images/clips)
- CD-RW storage: 700MB
- DVD storage: -R (4.7GB)
- Hard Drive Image Storage: ~112GB

Compare old images with current exam

Reload of archived data sets

Connectivity & DICOM

Ethernet network connection

DICOM 3.0 (Optional)

Verify

Print

Store

Modality Worklist

Storage Commitment

Modality Performed Procedure Step (MPPS)

Media Exchange

Off network/mobile storage queue

Query/Retrieve

Public SR Template
- Structured Reporting – compatible with vascular and OB standard

Remote capability InSite ExC

Physiological Input Panel (Option)

Physiological Input

ECG, 2 lead

Dual R-Trigger

Pre-settable ECG R Delay Time

Pre-settable ECG Position

Adjustable ECG Gain Control

Automatic Heart Rate Display

Report Writer (Option)

On-board reporting package automates report writing

Formats various exam results into a report suitable for printing or reviewing on a standard PC

Exam result reports can include patient info, exam info, measurements, calculations, images, comments and physician diagnosis

Standard templates provided

Customizable templates

Scanning Parameters

Displayed Imaging Depth: 0 – 33 cm

Minimum Depth of Field: 0 – 2 cm (Zoom) (probe dependent)

Maximum Depth of Field: 0 – 33 cm (probe dependent)

Continuous Dynamic Receive Focus/Continuous Dynamic Receive Aperture

Adjustable Dynamic Range

Adjustable Field of View (FOV)

Image Reverse: Right/Left

Image Rotation of 0°, 180°

Digital B-Mode

Adjustable:
- Acoustic Power
- Gain
- Dynamic Range
- Frame Averaging
- Gray Scale Map
- Frequency
- Line Density
- Scanning Size (FOV or Angle – depending on the probe, see probe specifications)
- B Colorization
- Reject
- Suppression
- SRI-HD
- Edge Enhance

Digital M-Mode

Adjustable:
- Acoustic Power
- Gain
- Dynamic Range
- Gray Scale Map
- Frequency
- Sweep Speed
- M Colorization
- M Display Format
- Rejection

Anatomical M-Mode

M-Mode cursor adjustable at any plane

Can be activated from a Cine loop from a live or stored image

M and A capability

Available with Color Flow Mode

Curved Anatomical M-Mode

Digital Spectral Doppler Mode

Adjustable:
- Acoustic Power
- Gain
- Dynamic Range
- Gray Scale Map
- Transmit Frequency
- Wall Filter
- PW Colorization
- Velocity Scale Range
- Sweep Speed
- Sample Volume Length
- Angle Correction
- Steered Linear
- Spectrum Inversion
- Trace Method
- Baseline Shift
- Doppler Auto Trace
- Time Resolution
- Compression
- Trace Direction
- Trace Sensitivity

Digital Color Flow Mode

Adjustable:
- Acoustic Power
- Color Maps, including velocity-variance maps
- Gain
- Velocity Scale Range
- Wall Filter
- Packet Size
- Line Density
- Spatial Filter
- Steering Angle
- Baseline Shift
- Frame Average
- Threshold
- Accumulation mode
- Sample Volume Control
- Flash Suppression
- Quantification (Option)

Digital Power Doppler Imaging

Adjustable:
- Acoustic Power
- Color Maps including velocity-variance maps
- Gain
- Velocity Scale Range
- Wall Filter
- Packet Size
- Line Density
- Spatial Filter
- Steering Angle
- Frame Average
- Threshold
- Accumulation mode
- Sample Volume Control
- Flash Suppression

Continuous Wave Doppler (Option)

Adjustable:
- Acoustic Power
- Gain
- Dynamic Range
- Gray Scale Map
- Transmit Frequency
- Wall Filter
- CW Colorization
- Velocity Scale Range
- Sweep Speed
- Angle Correction
- Spectrum Inversion
- Trace Method
- Baseline Shift
- Doppler Auto Trace
- Compression
- Trace Direction
- Trace Sensitivity

Automatic Optimization

Optimize B-Mode image to improve contrast resolution

Selectable amount of contrast resolution improvement (low, medium, high)

Auto-Spectral Optimize adjusts
- Baseline
- Invert
- PRF (on live image)
- Angle correction

Coded Harmonic Imaging

Available on all 2D probes

B-Flow (Option)

Available on C1-5-D, 9L-D, ML6-15, 11L-D and L8-18i-D probes

Background: On/Off

Sensitivity/PRI

Line Density

Edge Enhance

Frame Average

Gray Scale Map

Tint Map

Dynamic Range

Rejection

Gain

Dual Beam

B-Flow Color

Accumulation

Coded Contrast Imaging (Option)

Available on C1-5-D probe

2 Contrast Timers

Timed Updates: 0.05 – 10 seconds

Accumulation mode, six levels

Maximum Enhance Mode

Flash

Time Intensity Curve (TIC) Analysis

Auto MI control

The LOGIQ S7 Expert is designed for compatibility with commercially available ultrasound contrast agents. Because the availability of these agents is subject to government regulation and approval, product features intended for use with these agents may not be commercially marketed nor made available before the contrast agent is cleared for use. Contrast related product features are enabled only on systems for delivery to an authorized country or region of use.

LOGIQView (Option)

Extended Field of View Imaging

Available on 9L-D, ML6-15, 11L-D, L8-18i-D, 3CRF-D, C1-5-D, IC5-9-D, 3Sp-D, RAB4-8-D, 8C and S4-10-D probes

For use in B-Mode

CrossXBeam is available on linear probes

Auto detection of scan direction

Pre or post-process zoom

Rotation

Auto fit on monitor

Measurements in B-Mode

3D

Allows unlimited rotation and planar translations

3D reconstruction from Cine sweep

Advanced 3D (Option)

Acquisition of Color data

Automatic rendering

3D Landscape technology

3D Movie

Scan Assistant (Option)

Factory Programs

User defined programs

Steps include image annotations, mode transitions, basic imaging controls and measurement initiation

Elastography (Option)

Available on ML6-15, 9L-D, C1-5-D, IC5-9-D, and 11L-D probes

Semi-Quantification[1]

TVI (Option)

- Myocardial Doppler Imaging with color overlay on tissue image
- Available on the sector probes
- Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information
- Curved Anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane
- Q-Analysis: Multiple Time Motion trace display from selected points in the myocardium

Stress Echo (Option)

- Advanced and flexible Stress Echo examination capabilities
- Provides exercise and pharmacological protocol templates
- 8 default templates
- Template editor for user configuration of existing templates or creation of new templates
- Reference scan display during acquisition for stress level comparison (dual screen)
- Baseline level/Previous level selectable
- Raw data continuous capture
- Over 100 sec available
- Wall motion scoring (bulls-eye and segmental)
- Smart stress: Automatically set up various scanning parameters (for instance, geometry, frequency, gain etc.) according to same projection on previous level

Virtual Convex

- Provides a convex field of view
- Compatible with CrossXBeam
- Available on all linear and sector transducers

SRI-HD

- Speckle Reduction Imaging
- Provides multiple levels of speckle reduction
- Compatible with Side by Side DualView Display
- Compatible with all linear, convex and sector transducers
- Compatible with B-Mode, Color, Contrast Agent and 3D imaging

CrossXBeam

- Provides 3, 5, 7 or 9 angles of spatial compounding
- Live Side by Side DualView Display

Compatible with:
- Color Mode
- PW
- SRI-HD
- Coded Harmonic Imaging
- Virtual Convex

Available on 9L-D, ML6-15, 11L-D, L8-18i-D, 3CRF-D, C1-5-D, RAB4-8-D, 8C and IC5-9-D probes

Controls Available While "Live"

- Write Zoom
- B/M/CrossXBeam-Mode
- Gain
- TGC
- Dynamic Range
- Acoustic Output
- Transmission Focus Position
- Transmission Focus Number
- Line Density Control
- Sweep Speed for M-Mode
- Number of Angles for CrossXBeam
- PW-Mode
- Gain
- Dynamic Range
- Acoustic Output
- Transmission Frequency
- PRF
- Wall Filter
- Spectral Averaging
- Sample Volume Gate
  - Length
  - Depth
- Velocity Scale
- Color Flow Mode
- CFM Gain
- CFM Velocity Range
- Acoustic Output
- Wall Echo Filter
- Packet Size
- Frame Rate Control
- CFM Spatial Filter
- CFM Frame Averaging
- CFM Line Resolution
- Frequency/Velocity Base Line Shift

Controls Available on "Freeze" or Recall

- Automatic Optimization
- SRI-HD
- CrossXBeam – Display non-compounded and compounded image simultaneously in split screen
- 3D reconstruction from a stored Cine loop
- B/M/CrossXBeam Mode
- Gray Map Optimization
- TGC
- Colorized B and M
- Frame Average (loops only)
- Dynamic Range: Anatomical M-Mode
- Max Read Zoom to 8x: Base Line Shift
- Sweep Speed
- PW Mode
- Gray Map
- Post Gain
- Baseline shift
- Sweep Speed
- Invert Spectral wave form
- Compression
- Rejection
- Colorized Spectrum
- Display Format
- Doppler Audio
- Angle Correct
- Quick Angle Correct
- Auto Angle Correct
- Color Flow
- Overall Gain (loops and stills)
- Color Map
- Transparency Map
- Frame Averaging (loops only)
- Flash Suppression
- CFM Display Threshold
- Spectral Invert for Color/Doppler
- Anatomical M-Mode on Cine loop

Measurements/Calculations

General B-Mode

- Depth and Distance
- Circumference (Ellipse/Trace)
- Area (Ellipse/Trace)
- Volume (Ellipsoid)
- % Stenosis (Area or Diameter)
- Angle between two lines

General M-Mode

- M-Depth
- Distance
- Time
- Slope
- Heart Rate

General Doppler Measurements/Calculations

- Velocity
- Time
- A/B Ratio (Velocities/Frequency Ratio)
- PS (Peak Systole)
- ED (End Diastole)
- PS/ED (PS/ED Ratio)
- ED/PS (ED/PS Ratio)
- AT (Acceleration Time)
- ACCEL (Acceleration)
- TAMAX (Time Averaged Maximum Velocity)
- Volume Flow (TAMEAN and Vessel Area)
- Heart Rate
- PI (Pulsatility Index)
- RI (Resistivity Index)

Real-time Doppler Auto Measurements/Calculations

- PS (Peak Systole)
- ED (End Diastole)
- MD (Minimum Diastole)
- PI (Pulsatility Index)
- RI (Resistivity Index)
- AT (Acceleration Time)
- ACC (Acceleration)
- PS/ED (PS/ED Ratio)
- ED/PS (ED/PS Ratio)

HR (Heart Rate)
TAMAX (Time Averaged Maximum Velocity)
PVAL (Peak Velocity Value)
Volume Flow (TAMEAN and Vessel Area)

OB Measurements/Calculations

Gestational Age by:
- GS (Gestational Sac)
- CRL (Crown Rump Length)
- FL (Femur Length)
- BPD (Biparietal Diameter)
- AC (Abdominal Circumference)
- HC (Head Circumference)
- APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter)
- FTA (Fetal Trunk Cross-sectional Area)
- HL (Humerus Length)
- BD (Binocular Distance)
- FT (Foot Length)
- OFD (Occipital Frontal Diameter)
- TAD (Transverse Abdominal Diameter)
- TCD (Transverse Cerebellum Diameter)
- THD (Thorax Transverse Diameter)
- TIB (Tibia Length)
- ULNA (Ulna Length)

Estimated Fetal Weight (EFW) by:
- AC, BPD
- AC, BPD, FL, HC
- AC, FL, HC
- BPD, APTD, TTD, FL
- AC, BPD, FL
- AC, FL
- AC, HC
- BPD, APTD, TTD, SL

Calculations and Ratios
- FL/BPD
- FL/HC
- CI (Cephalic Index)
- CTAR(Cardio-Thoracic Area Ratio)
- FL/AC
- HC/AC
- AFI (Amniotic Fluid Index)

Measurements/Calculations by: ASUM, ASUM 2001, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chitty, Eik-Nes, Ericksen, Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kurtz, Mayden, Mercer, Merz, Moore, Nelson, Osaka University, Paris, Rempen, Robinson, Shepard, Shepard/Warsoff, Tokyo University, Tokyo/Shinozuka, Yarkoni
Fetal Graphical Trending
Growth Percentiles
Multi-Gestational Calculations (4)
Fetal Qualitative Description (Anatomical survey)
Fetal Environmental Description (Biophysical profile)
Programmable OB Tables
Over 20 selectable OB Calculations
Expanded Worksheets

GYN Measurements/Calculations

Right Ovary Length, Width, Height
Left Ovary Length, Width, Height
Uterus Length, Width, Height
Cervix Length, Trace
Ovarian Volume
ENDO (Endometrial thickness)
Ovarian RI
Uterine RI
Follicular measurements
Summary Reports

Vascular Measurements/Calculations

SYS DCCA (Systolic Distal Common Carotid Artery)
DIAS DCCA (Diastolic Distal Common Carotid Artery)
SYS MCCA (Systolic Mid Common Carotid Artery)
DIAS MCCA (Diastolic Mid Common Carotid Artery)
SYS PCCA (Systolic Proximal Common Carotid Artery)
DIAS PCCA (Diastolic Proximal Common Carotid Artery)
SYS DICA (Systolic Distal Internal Carotid Artery)
DIAS DICA (Systolic Distal Internal Carotid Artery)
SYS MICA (Systolic Mid Internal Carotid Artery)
DIAS MICA (Diastolic Mid Internal Carotid Artery)
SYS PICA (Systolic Proximal Internal Carotid Artery)
DIAS PICA (Diastolic Proximal Internal Carotid Artery)
SYS DECA (Systolic Distal External Carotid Artery)
DIAS DECA (Diastolic Distal External Carotid Artery)
SYS PECA (Systolic Proximal External Carotid Artery)
DIAS PECA (Diastolic Proximal External Carotid Artery)
VERT (Systolic Vertebral Velocity)
SUBCLAV (Systolic Subclavian Velocity)
Automatic IMT
Summary Reports

Urological Calculations

Bladder Volume
Prostate Volume
Lt/Rt Renal Volume
Generic Volume
Post-Void Bladder Volume

Probes

3CRF-D

Micro Convex Biopsy Probe	
Applications	Abdomen, OB/GYN, Urology
Biopsy Guide	Single-Angle, disposable with a reusable bracket (40442LR), Multi-Angle with a reusable bracket (H40452LP)

8C

Micro Convex Probe	
Applications	Neonatal, Pediatrics
Biopsy Guide available	None

C1-5-D

Convex Probe	
Applications	Abdomen, Vascular, OB/Gyn, Urology
Biopsy Guide	Multi-Angle, disposable with a reusable bracket (H40432LE)

IC5-9-D

Endo Micro Convex Probe	
Applications	OB/GYN, Urology, Transvaginal, Transrectal
Biopsy Guide	Single Angle, disposable with a disposable bracket (E8385MJ, E8333JB), Reusable bracket (H40412LN)

ML6-15

Matrix Array Linear Probe	
Applications	Small parts, Vascular, Neonatal, Pediatrics
Biopsy Guide	Multi-Angle, disposable with a reusable bracket (H40432LJ)

11L-D

Linear Probe	
Applications	Vascular, Small Parts, Neonatal, Pediatrics
Biopsy Guide	Multi-Angle, disposable with a reusable bracket (H40432LC)

9L-D

Linear Probe	
Applications	Vascular, Small Parts, Pediatric, Abdomen
Biopsy Guide	Multi-Angle, disposable with a reusable bracket (H4906BK)

L8-18i-D

Linear Probe	
Applications	Vascular, Small Parts, Neonatal, Pediatrics
Biopsy Guide available	None

3Sp-D

Phased Array Sector Probe	
Applications	Cardiac, Transcranial, Abdomen
Biopsy Guide	Multi-Angle, Reusable bracket (H46222LC)

S4-10-D

Phased Array Sector Probe	
Applications	Pediatrics, Neonatal, Abdomen
Biopsy Guide available	None

RAB4-8-D

Convex Volume Probe	
Applications	Abdomen, OB/GYN, Urology
Biopsy Guide	Single-Angle, disposable with reusable bracket (H46701AE), single angle reusable (H48621Y)

P2D

CW Split Crystal Probe	
Applications	Cardiac, Pediatric

P6D

CW Split Crystal Probe	
Applications	Cardiac, Pediatric, Vascular

Inputs and Outputs

HDMI Out
Ethernet Network (RJ45)
External Audio Out
USB (2x in front, 1x in rear)
AC Power Input

Safety Conformance

The LOGIQ S7 Expert is:

Classified to UL 60601-1 by a Nationally Recognized Test Lab
Certified to CAN/CSA-C22.2 No. 601.1-M90 by an SCC accredited Test Lab
CE Marked to Council Directive 93/42/EEC on Medical Devices
Conforms to the following standards for safety:
• IEC 60601-1 Medical electrical equipment – Part 1: General requirements for safety
• IEC 60601-1-1 Medical electrical equipment – Part 1-1 General requirements for safety – Collateral Standard: Safety requirements for medical electrical systems
• IEC 60601-1-2 Medial electrical equipment – Part 1-2 General requirements for safety – Collateral Standard: Electromagnetic compatibility – requirements and tests
• IEC 60601-1-4 Medical electrical equipment Part 1-4 General requirements for safety – Collateral Standard: programmable electrical medical systems
• IEC 60601-1-6 Medical electrical equipment Part 1-6 General requirements for basic safety and essential performance – Collateral Standard: Usability
• IEC 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
• ISO 10993-1 Biological evaluation of medical devices – Part 1 Evaluation and testing
• NEMA UD2 Acoustic output measurement standard for diagnostic ultrasound equipment
• NEMA UD3 Standard for real time display of thermal and mechanical acoustic output indices on diagnostic ultrasound equipment (MI, TIS, TIB, TIC)
EMC Emissions Group 1 Class B device requirements as per Sub clause 4.2 of CISPR 11

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[1]Elastography with semi-Quantification (Elastography Q-Analysis) described in this material has not been cleared by the U.S. FDA and is not available for promotion or sale in the United States.

[2]Coded contrast imaging described in this material has not been cleared by the U.S. FDA and is not available for promotion or sale in the United States.

imagination at work

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